

WMAP Cosmological Parameters

Model: lcdm+nrel

Data: wmap9+snls3

$10^9 \Delta_{\mathcal{R}}^2$	2.34 ± 0.10	H_0	$77.8^{+9.4}_{-8.8}$ km/s/Mpc
N_{eff}	> 1.8 (95% CL)	$\ell(\ell + 1)C_{220}/(2\pi)$	5752 ± 34 μK^2
$d_A(z_{\text{eq}})$	13193^{+1448}_{-1503} Mpc	$d_A(z_*)$	13041^{+1429}_{-1484} Mpc
$D_v(z = 0.57)/r_s(z_d)$	$12.63^{+0.71}_{-0.72}$	η	$(6.24 \pm 0.13) \times 10^{-10}$
k_{eq}	$0.0106^{+0.0012}_{-0.0011}$	ℓ_{eq}	136.9 ± 3.3
ℓ_*	303.4 ± 1.9	n_b	$(2.562 \pm 0.055) \times 10^{-7}$ cm $^{-3}$
n_s	0.993 ± 0.026	Ω_b	$0.026 < \Omega_b < 0.054$ (95% CL)
$\Omega_b h^2$	0.02282 ± 0.00049	Ω_c	0.225 ± 0.020
$\Omega_c h^2$	$0.139^{+0.037}_{-0.035}$	Ω_Λ	0.736 ± 0.021
Ω_m	0.264 ± 0.021	$\Omega_m h^2$	$0.161^{+0.037}_{-0.035}$
$r_s(z_d)$	141^{+16}_{-17} Mpc	$r_s(z_d)/D_v(z = 0.106)$	0.367 ± 0.022
$r_s(z_d)/D_v(z = 0.2)$	0.200 ± 0.012	$r_s(z_d)/D_v(z = 0.35)$	$0.1199^{+0.0071}_{-0.0069}$
$r_s(z_d)/D_v(z = 0.44)$	$0.0983^{+0.0057}_{-0.0056}$	$r_s(z_d)/D_v(z = 0.54)$	$0.0829^{+0.0048}_{-0.0047}$
$r_s(z_d)/D_v(z = 0.57)$	$0.0794^{+0.0046}_{-0.0044}$	$r_s(z_d)/D_v(z = 0.6)$	$0.0762^{+0.0044}_{-0.0042}$
$r_s(z_d)/D_v(z = 0.73)$	$0.0656^{+0.0037}_{-0.0036}$	$r_s(z_*)$	135 ± 16
R	1.718 ± 0.014	σ_8	$0.868^{+0.082}_{-0.079}$
$\sigma_8 \Omega_m^{0.5}$	0.446 ± 0.046	$\sigma_8 \Omega_m^{0.6}$	$0.391^{+0.042}_{-0.041}$
α_{SNLS}	1.43 ± 0.11	β_{SNLS}	3.26 ± 0.11
A_{SZ}	< 2.0 (95% CL)	t_0	12.7 ± 1.4 Gyr
τ	0.091 ± 0.014	θ_*	0.010354 ± 0.000065
θ_*	0.5932 ± 0.0037 °	τ_{rec}	263^{+30}_{-31}
t_{reion}	391^{+98}_{-100} Myr	t_*	349278^{+40734}_{-42217} yr
z_d	$1022.2^{+2.2}_{-2.4}$	z_{eq}	3175 ± 108
z_{rec}	$1090.0^{+3.1}_{-2.9}$	z_{reion}	11.4 ± 1.5
z_*	$1092.7^{+3.0}_{-2.8}$		